

#5  
Prior Art  
B. Ford  
PATENT  
Docket No. 5634.121 6/21/96

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: John C. Harvey and James W. Cuddihy

Serial No.: 08/447,496

Filing Date: May 23, 1995

For: Signal Processing Apparatus and Methods

Group Art Unit: 2602/348

Examiner:

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GROUP 260

Assistant Commissioner of Patents  
Washington D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56(a) and in conformance with the procedures of 37 C.F.R. §§ 1.97-98 and M.P.E.P. § 609, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449.

The above-referenced application claims priority under 35 U.S.C. § 120 of the following applications:

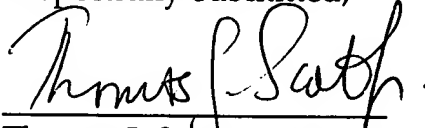
<u>Serial No.</u>	<u>Filing Date</u>	<u>Patent No.</u>
08/113,329	August 30, 1993	Pending
08/056,501	May 3, 1993	5,335,277
07/849,226	March 10, 1992	5,233,654
07/588,126	September 25, 1990	5,109,414
07/096,096	September 11, 1987	4,965,825

Applicants believe that all references cited on the attached PTO 1449 form were cited by or submitted to the PTO in one or more of the case cited above or in U.S. Patent Application Serial No. 06/829,531, filed February 15, 1986 now U.S. Patent No. 4,704,725, U.S. Patent Application Serial No. 06/317,510, filed November 3, 1981 now U.S. Patent No. 4,694,490 and co-pending U.S. Patent Application Serial No. 08/448,143, filed May 23, 1995. Therefore, no copies of the listed references are provided herewith. Additionally, references believed to be dated in the period from November 3, 1981 through September 11, 1987 are included in the present IDS as this application only claims priority to the September 11, 1987 filing date. It is respectfully requested that the information above be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

CERTIFICATION AND/OR FEE

Since this IDS is being filed pursuant to 37 C.F.R. § 1.97(b) before the later of three months after the filing date of the above-referenced application or the date of receipt of the first Office action on the merits, no certification or fee is required.

Respectfully submitted,



Thomas J. Scott, Jr. (Reg. No. 27,836)

Dated: December 5, 1995

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### U. S. Patent Documents

Examiner Initial	Patent Number	Patent Date	Name	Class / Subclass	Filing Date *
	3,602,891	8/31/71	Clark et al.	340/172.5	
	3,651,471	3/21/72	Haselwood et al.	340/172.5	
	3,733,431	5/15/73	Kirk, Jr., et al.	178/5.1	
	3,849,729	11/19/74	Van Baggem	325/31	
	3,906,450	9/16/75	Prado, Jr.	340/150	
	3,947,624	3/30/76	Miyake	178/6	
	3,947,972	4/6/76	Freeman	35/8 A	
	3,973,206	8/3/76	Haselwood et al.	325/455	
	3,987,397	10/19/76	Belcher et al.	325/308	
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	4,078,316	3/14/78	Freeman	35/8 A	
	4,081,832	3/28/78	Sherman	358/124	
	4,117,605	10/3/78	Kurland et al.	35/9 A	
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	4,218,698	8/19/80	Bart et al.	358/22	
	4,320,256	3/16/82	Freeman	179/6.04	
	4,338,643	7/6/82	Tadokoro	360/135	

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	4,377,870	3/22/83	Anderson et al.	455/2	
	4,410,911	10/18/83	Field et al.	358/121	
	4,414,516	11/8/83	Howard	333/21A	
	4,420,656	12/13/83	Freeman	179/6.04	
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	4,429,385	1/31/84	Cichelli et al.	370/92	
	4,433,211	2/21/84	McCalmont et al.	179/1.5 S	
	4,433,379	2/21/84	Schenk et al.	364/200	
	4,443,660	4/17/84	DeLong	178/22.04	
	4,449,114	5/15/84	Fascenda et al.	340/988	
	4,450,477	5/22/84	Lovett	358/86	
	4,451,700	5/29/84	Kempner et al.	179/2 AS	
	4,454,543	6/12/84	Lund et al.	358/118	
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	4,458,315	7/3/84	Uchenick	364/200	
	4,460,922	7/17/84	Ensinger et al.	358/122	

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	4,461,032	7/17/84	Skeros	455/4	
	4,462,076	7/24/84	Smith, III	364/200	
	4,462,078	7/24/84	Ross	364/300	
	4,475,153	10/2/84	Kihara et al.	364/145	
	4,475,189	10/2/84	Herr et al.	370/62	
	4,476,573	10/9/84	Duckeck	455/45	
	4,484,027	11/20/84	Lee et al.	178/22.13	
	4,484,217	11/20/84	Block et al.	358/84	
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	4,488,289	12/11/84	Turner	370/60	
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	4,503,287	3/5/85	Morris et al.	178/22.08	
	4,503,538	3/5/85	Fritz	371/28	
	4,507,680	3/26/85	Freeman	358/86	
	4,509,073	4/2/85	Baran et al.	358/86	
	4,512,011	4/16/85	Turner	370/60	

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	4,520,404	5/28/85	Von Kohorn	358/335	
	4,521,806	6/4/85	Abraham	358/86	
	4,527,194	7/2/85	Sirazi	358/86	
	4,531,020	7/23/85	Wechselberger et al.	178/22.08	
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	4,533,948	8/6/85	McNamara et al.	358/122	
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	4,539,676	9/3/85	Lucas	370/60	
	4,544,963	10/1/85	Jacoby et al.	360/40	
	4,546,382	10/8/85	McKenna et al.	358/84	
	4,546,387	10/8/85	Glaab	358/186	
	4,547,804	10/15/85	Greenberg	358/142	
	4,553,252	11/12/85	Egendorf	377/15	
	4,554,418	11/19/85	Toy	179/2 DP	

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	4,562,465	12/31/85	Glaab	358/120	
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	4,566,030	1/21/86	Nickerson et al.	358/84	
	4,567,512	1/28/86	Abraham	358/86	
	4,573,072	2/25/86	Freeman	358/86	
	4,573,151	2/25/86	Jotwani	370/56	
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	4,577,289	3/18/86	Comerford et al.	364/900	
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	4,583,128	4/15/86	Anderson, Jr. et al.	358/302	
	4,584,641	4/22/86	Guglielmino	364/200	
	4,586,134	4/29/86	Norstedt	364/200	
	4,588,991	5/13/86	Atalla	340/825.31	
	4,589,064	5/13/86	Chiba et al.	364/200	
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	4,591,906	5/27/86	Morales-Garza et al.	358/84	
	4,592,546	6/3/86	Fascenda et al.	273/1 E	
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	4,595,950	6/17/86	Löfberg	358/122	
	4,596,021	6/17/86	Carter et al.	375/5	
	4,597,058	6/24/86	Izumi et al.	364/900	
	4,598,288	7/1/86	Yarbrough et al.	340/825.34	
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	4,603,232	7/29/86	Kurland et al.	179/2 AS	
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	4,608,456	8/26/86	Paik et al.	179/1.5 S	
	4,613,901	9/23/86	Gilhousen et al.	358/122	
	4,616,263	10/7/86	Eichelberger	358/185	
	4,620,224	10/28/86	Lee et al.	358/119	

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	4,630,262	12/16/86	Callens et al.	370/81	
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	4,638,359	1/20/87	Watson	358/147	
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	4,641,205	2/3/87	Beyers, Jr.	360/33.1	
	4,641,253	2/3/87	Mastran	364/328	
	4,641,307	2/3/87	Russell	370/60	
	4,646,075	2/24/87	Andrews et al.	340/747	
	4,647,964	3/3/87	Weinblatt	358/84	
	4,656,629	4/7/87	Kondoh et al.	370/85	
	4,658,093	4/14/87	Hellman	380/25	
	4,677,434	6/30/87	Fascenda	380/23	
	4,677,466	6/30/87	Lert, Jr. et al.	358/84	

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	4,677,611	6/30/87	Yanosy, Jr. et al.	370/85	
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	4,684,980	8/4/87	Rast et al.	358/86	
	4,685,056	8/4/87	Barnsdale, Jr. et al.	364/200	
	4,685,131	8/4/87	Horne	380/20	
	4,688,247	8/18/87	Davidov	380/19	
	4,689,022	8/25/87	Peers et al.	434/307	
	4,689,619	8/25/87	O'Brien, Jr.	340/825.08	
	4,692,817	9/8/87	Theis	360/12	
	4,692,819	9/8/87	Steele	360/72.1	
	4,694,491	9/15/87	Horne et al.	380/20	3/11/85
	4,695,953	9/22/87	Blair et al.	364/410	4/14/86
	4,696,034	9/22/87	Wiedemer	380/16	10/12/84
	4,697,281	9/29/87	O'Sullivan	379/59	3/14/86
	4,701,794	10/20/87	Fröling et al.	358/147	4/12/85
	4,706,121	11/10/87	Young	358/142	5/6/86
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	4,709,418	11/24/87	Fox et al.	455/612	9/14/83
	4,710,955	12/1/87	Kauffman	380/10	11/25/85
	4,712,105	12/8/87	Köhler	340/825.69	4/30/85
	4,712,238	12/8/87	Gilhousen et al.	380/20	6/8/84
	4,712,239	12/8/87	Frezza et al.	380/20	6/16/86
	4,722,526	2/2/88	Tovar et al.	273/1 E	1/20/87
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	4,725,886	2/16/88	Galumbeck et al.	358/147	4/21/83
	4,728,949	3/1/88	Platte et al.	340/825.37	3/23/84
	4,731,679	3/15/88	O'Gwynn et al.	360/73	9/20/84
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	4,734,764	3/29/88	Pocock et al.	358/86	5/6/85
	4,737,993	4/12/88	DeVilbiss	455/180	1/21/87
	4,739,510	4/19/88	Jeffers et al.	380/15	4/2/87
	4,740,890	4/26/88	William	364/200	12/22/83
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	4,747,139	5/24/88	Taaffe	380/44	10/21/86
	4,748,560	5/31/88	Kataoka	364/200	10/11/85
	4,750,036	6/7/88	Martinez	358/147	5/14/86
	4,750,213	6/7/88	Novak	455/67	6/9/86
	4,751,578	6/14/88	Reiter et al.	358/183	5/28/85
	4,751,665	6/14/88	Cappello et al.	364/748	2/24/86
	4,754,326	6/28/88	Kram et al.	364/900	10/25/83
	4,755,871	7/5/88	Morales-Garza et al.	358/84	11/25/86
	4,755,883	7/5/88	Uehira	358/335	9/11/85
	4,761,646	8/2/88	Choquet et al.	340/825.520	5/20/86
	4,763,317	8/9/88	Lehman et al.	370/58	12/13/85
	4,768,087	8/30/88	Taub et al.	358/84	6/6/85
	4,768,110	8/30/88	Dunlap et al.	360/33.1	5/6/87
	4,771,456	9/13/88	Martin et al.	380/10	11/6/86
	4,775,935	10/4/88	Yourick	364/401	9/22/86
	4,783,846	11/8/88	Wachob	455/151	6/4/87
	4,786,979	11/22/88	Claus et al.	358/335	5/22/86

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	4,787,063	11/22/88	Muguet	364/900	10/16/85
	4,787,085	11/22/88	Suto et al.	370/110.1	5/29/87
	4,789,863	12/6/88	Bush	340/825.350	1/13/88***
	4,792,849	12/20/88	McCalley et al.	358/86	8/4/87
	4,792,973	12/20/88	Gilhousen et al.	380/24	12/4/87***
	4,802,114	1/31/89	Sogame	364/900	12/15/86
	4,803,725	2/7/89	Horne et al.	380/44	5/14/87
	4,805,014	2/14/89	Sahara et al.	358/86	9/14/87***
	4,812,843	3/14/89	Champion, III et al.	340/905	8/11/87
	4,813,011	3/14/89	Kulakowski et al.	364/900	5/13/85
	4,815,129	3/21/89	Griffin et al.	380/15	1/2/85
	4,816,905	3/28/89	Tweedy et al.	358/86	4/30/87
	4,821,032	4/11/89	Shimada et al.	340/825.210	12/23/85
	4,821,102	4/11/89	Ichikawa et al.	358/183	7/29/87
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	Filing Date May 23, 1995	Group 2602/348

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	4,876,592	10/24/89	Von Kohorn	358/84	5/10/88***
	4,887,172	12/12/89	Steele	360/73.06	4/10/87
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\*- If pertinent

\*\*\*- Claims priority from parent application filed prior to Sep. 11, 1987.

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	Applicant(s) John C. Harvey <i>and</i> James W. Cuddihy	
	Filing Date May 23, 1995	Group 2602/348

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